

**IN THE
UNITED STATES
PATENT AND TRADEMARK
OFFICE**

<i>Application Number</i>	09/749,637
<i>Filing Date</i>	28 December 2000
<i>First Named Inventor</i>	Baldomero M. OLIVERA
<i>Group Art Unit</i>	1646
<i>Examiner Name</i>	unassigned
<i>Attorney Docket Number</i>	2314-227

Title of the Invention: **O-SUPERFAMILY CONOTOXIN PEPTIDES**

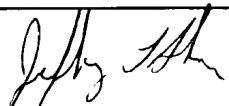
STATEMENT PURSUANT TO 37 CFR 1.821(f)

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In the matter of the above-identified application, Applicants submit herewith a computer disk containing the sequences of the substitute Sequence Listing which is filed concurrently herewith by Preliminary Amendment.

It is hereby certified that the content of the paper and computer copies of said substitute Sequence Listing are identical and include no new matter.

RESPECTFULLY SUBMITTED,					
NAME AND REG. NUMBER	Jeffrey L. Ihnen, Reg. No. 28,957				
SIGNATURE				DATE	13 AUGUST 2001
Address	ROTHWELL, FIGG, ERNST & MANBECK, pc Suite 701-East, 555 13th Street, N.W.				
City	Washington	State	D.C.	Zip Code	20004
Country	U.S.A.	Telephone	202-783-6040	Fax	202-783-6031

RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/ 749,637

Source: OIPE

Date Processed by STIC: 01-16-01

RECEIVED

AUG 29 2001

TECH CENTER 1600 2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Note: The initial sequence listing was errored and edited and is included. The edited sequence listing was found to still be errored as is noted on p. 5.

OIPE

RAW SEQUENCE LISTING

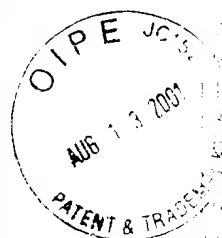
PATENT APPLICATION: US/09/749,637

DATE: 01/23/2001

TIME: 12:19:41

Input Set: A:\Cpg.pto

Output Set: N:\CRF3\01232001\I749637.raw



Does Not Comply
Corrected Diskette Needed
see p. 5

110 APPLICANT: University of Utah Research Foundation

Cognetix, Inc.

Olivera, Baldemero M.

Cartier, G. Edward

Watkins, Marion

Hillyard, David R.

Heintzsh, J. Michael

Layor, Richard L.

Jones, Robert M.

111 TITLE OF INVENTION: α -Supertamrin Conzeotin Peptides

112 REFERENCE: 23 1-222

C--> 33 <140> CURRENT APPLICATION NUMBER: US/09/749,637

C--> 33 <141> CURRENT FILING DATE: 2000-12-28

33 <150> PRIOR APPLICATION NUMBER: US 60/211,111

33 <151> PRIOR FILING DATE: 2000-10-27

33 <150> PRIOR APPLICATION NUMBER: US60/219,449

33 <151> PRIOR FILING DATE: 2000-07-26

33 <150> PRIOR APPLICATION NUMBER: US 60/173,265

33 <151> PRIOR FILING DATE: 2000-05-26

33 <150> PRIOR APPLICATION NUMBER: US 60/173,751

33 <151> PRIOR FILING DATE: 1999-12-30

33 <160> NUMBER OF SEQ ID NOS: 402

33 <170> SOFTWARE: Patent n. version 3.0

33 <210> SEQ ID NO: 1

33 <211> LENGTH: 261

33 <212> TYPE: DNA

33 <213> ORGANISM: *Comus gloriamaris*

33 <220> FEATURE:

33 <221> NAME/KEY: CDS

33 <222> LOCATION: (1)..(231)

33 <100> SEQUENCE: 1

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65 Met Lys Leu Ile Cys Met Met ile Val Ala Val Leu Phe Leu Thr Ala
66 1          5          10          15
68 tgg acg ttc atc acg gct gat gat leu gga aat gga atg qaq att ctt      96
69 Trp Thr Phe Val Thr Ala Asp Asp Ser Gly Asn Gly Met Glu Ile Leu
90          20          25          30
92 ttt ccc aag gcc ggt cac gaa atg qaq aac ctc gaa gtc tct aat ccg      144
93 Phe Pro Lys Ala Gly His Glu Met Glu Asn Leu Glu Val Ser Asn Arg
94          35          40          45
96 gtc aag ccc tgc cgt aaa gaa ggt caa ctt tct gat ccg ata ttt caa      192
97 Val Lys Pro Cys Arg Lys Gly Gln Leu Cys Asp Pro ile Phe Gln
98          50          55          60
100 aac tgc tgc cgt gcc tgg aat tgc gtt ctt ttc tgc gtc tgaactacc      241
101 Asn Cys Cys Arg Gly Trp Asn Cys Val Leu Phe Cys Val
102 65          70          75
104 gtgatgtctt ctctccctc      261

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/749,637

DATE: 01/23/2001

TIME: 12:19:41

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Output Set : N:\CRF3\01232001\1749637.raw

107 <210> SEQ ID NO: 2

109 <211> LENGTH: 47

111 <212> TYPE: PRI

113 <213> ORGANISM: *Comus gloriamaris*

117 <100> SEQUENCE: 2

119 Met Lys Leu Thr Cys Met Met Ile Val Ala Val Leu Phe Leu Thr Ala

120 1 5 10 15

121 Trp Thr Thr Val Thr Ala Asp Asp Ser Gly Asn Gly Met Glu Ile Leu

122 20 25 30

123 Phe Pro Phe Ala Gly Phe Glu Met Glu Asn Leu Glu Val Ser Asn Arg

124 35 40 45

125 Val Lys Phe Cys Arg Lys Glu Gly Gln Leu Cys Asp Pro Ile Phe Gln

126 50 55 60

127 Asn Cys Cys Arg Gly Trp Asn Cys Val Leu Phe Cys Val

128 65 70 75

130 <210> SEQ ID NO: 3

131 <211> LENGTH: 29

133 <212> TYPE: PRI

135 <213> ORGANISM: *Comus gloriamaris*

139 <100> SEQUENCE:

141 <210> NAME/KEY: CITE

143 <220> LOCATION: (1)..(29)

145 <223> OTHER INFORMATION: Xaa at residues 3 and 13 may be pro or hydroxy-
Pro; Xaa at residue

146 1 may be Glu or gamma-carboxy-Glu; Xaa at residue 22 may be Trp

147 or bromo-Trp

149 <100> SEQUENCE: 3

W--> 163 Val Lys Xaa Cys Arg Lys Xaa Gly Gln Leu Cys Asp Xaa Ile Phe Gln

164 1 5 10 15

W--> 166 Asn Cys Cys Arg Gly Xaa Asn Cys Val Leu Phe Cys Val

167 20 25

169 <210> SEQ ID NO: 4

171 <211> LENGTH: 29

173 <212> TYPE: PRI

175 <213> ORGANISM: *Comus gloriamaris*

179 <100> SEQUENCE:

181 <210> NAME/KEY: SITE

183 <220> LOCATION: (1)..(29)

185 <223> OTHER INFORMATION: Xaa at residues 3 and 13 may be pro or hydroxy-
Pro; Xaa at residue

186 1 may be Glu or gamma-carboxy-Glu; Xaa at residue 15 may be Tyr

187 or 1,25-I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-

188 O-Tyr; Xaa at residue 22 may be Trp or bromo-Trp

190 <100> SEQUENCE: 4

W--> 194 Val Lys Xaa Cys Arg Lys Xaa Gly Gln Leu Cys Asp Xaa Ile Xaa Gln

195 1 5 10 15

W--> 197 Asn Cys Cys Arg Gly Xaa Asn Cys Val Leu Phe Cys Val

198 20 25

200 <210> SEQ ID NO: 5

202 <211> LENGTH: 29

204 <212> TYPE: PRI

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/749,637

DATE: 01/23/2001

TIME: 12:19:11

Input Set : A:\Cpg.pto

Output Set: N:\CRF3\01232001\I749637.raw

200 <213> ORGANISM: *Conus gloriamaris*

210 <220> FEATURE:

211 <221> NAME/KEY: SITE

214 <222> LOCATION: (1)..(39)

216 <223> OTHER INFORMATION: Xaa at residues 3 and 13 may be pro or hydroxy-

pro; Xaa at residu

217 e 7 may be Glu or gamma-carboxy-Glu; Xaa at residue 22 may be His, Trp

218 or D-Pro-Tip; Xaa at residue 27 may be Tyr, 12-H-Tyr, mono-Hydro

219 -Tyr, di-Hydro-Tyr, O-sulpho-Tyr or O-phospho-Tyr

223 <400> SEQUENCE: 5

W--> 225 Val Lys Xaa Cys Arg Lys Xaa Gly Glu Leu Cys Asp Xaa Ile Phe Gln

226 1 5 10 15

W--> 228 Asn Cys Cys Arg Gly Xaa Asn Cys Val Leu Xaa Cys Val

229 20 25

231 <210> SEQ ID NO: 6

233 <211> LENGTH: 542

235 <212> TYPE: DNA

237 <213> ORGANISM: *Conus maria*

241 <220> FEATURE:

243 <221> NAME/KEY: CDS

247 <222> LOCATION: (116)..(335)

253 <400> SEQUENCE: 6

254 caaattgga cgtctgaaag tacattcca gattacaga atagactat tatcctatg

257 tccatctgta cctctatcca ttcatcatt cactgcaga ctatataaa catcgaatt

260 tctctctct tctatgtaaa acaga tcc atc aac tgg tgc cgt aga gaa gat

263 Ser Ile Arg Met Cys Arg Arg Glu Ala

266 1 5

269 caa att tgc gat cca att ttt caa aac tgc tgc cat agc ttg ttt tgc

272 Gln Ile Cys Asp Pro Ile Phe Gln Asn Cys Cys His Gly Leu Phe Cys

275 10 15 20 25

278 gtt ttg ttc tgc gtc taaaactaac gtgaatttt cctctccct ctatgattat

281 Val Leu Val Cys Val

284 30

286 taggcgcgcg ctctagaaag tccaaagctt cgtacgcgtg catgcgaagt catagcttt

289 ctatagttc accaaattt aattcactgc ccttcgtttt aaacgtcctt gactgggaaa

292 accttgcgtt taccgaatt aatgccttgc cgtgcacatc ccttttcgac aactgcgcta

295 atagcgaaga ggcggaac cactgcctt cccaacagtt ggcagcctg aatggcqaat

298 agaacgcgcg ctctagcgcg caatttt

301 <210> SEQ ID NO: 7

303 <211> LENGTH: 30

305 <212> TYPE: PRT

307 <213> ORGANISM: *Conus maria*

309 <400> SEQUENCE: 7

312 Ser Ile Arg Met Cys Arg Arg Glu Ala Gln Leu Cys Asp Pro Ile Phe

315 1 5 10 15

318 Gln Asn Cys Cys His Gly Leu Phe Cys Val Leu Val Cys Val

321 20 25 30

324 <210> SEQ ID NO: 8

326 <211> LENGTH: 27

328 <212> TYPE: PRT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/749,637

DATE: 01/23/2001

TIME: 17:19:11

Input Set : A:\Cpg.pto

Output Set : N:\CRF3\01232001\I749637.raw

380 <213> ORGANISM: Conus omaria

386 <220> FEATURES:

388 <221> NAME/KEY: SL1E

390 <222> LOCATION: (1)..(27)

393 <223> OTHER INFORMATION: Xaa at residue 1 is glu or glutamyl-carboxyl-glu. Xaa at residue 11 is

394

396 <400> FEATURE: 8

W--> 320 Met Cys Arg Arg Xaa Ala Gln Leu Cys Asp Xaa Ile Phe Gln Asn Cys

397 1 10

399 Cys His Glu Leu Phe Cys Val Leu Val Cys Val

399 10 20

399 <210> SEQ ID NO: 9

396 <211> LENGTH: 346

380 <212> TYPE: DNA

382 <213> ORGANISM: Conus textile

386 <220> FEATURES:

388 <221> NAME/KEY: CPG

390 <222> LOCATION: (27)..(35)

393 <223> OTHER INFO: 9

394 gggatgacgct gaaacatcac caag atg aaa ctg aca tgc atg ata atc att 31

394 Met Lys Leu Thr Cys Met Met Ile Val

397 1 7

399 act ata cta ttc tta acc gc tgc acc tta gtc tgc att att gac tgc 32

399 Ala Val Leu Phe Leu Thr Ala Trp Thr Phe Val Thr Ala Asp Asn Ser

399 10 15 20 25

399 aga aat gga atg gaa aat ctt ttc ccg aag gaa ggt cgc gaa atg gaa 33

399 Arg Asn Glu Leu Gln Asn Leu Phe Pro Lys Ala Gly His Glu Met Glu

399 30 35 40

399 gac ctg gca gac tct aaa cac aag cac cag gaa aga ccg gac acc ggc 34

399 Ser Leu Glu Asp Ser Lys His Arg His Gln Glu Arg Pro Asp Thr Gly

399 45 50 55

399 gac aaa gaa gaa atg ctg cta cag aga cac gtc aag ccg tgt cgt aaa 35

399 Asp Lys Glu Glu Met Leu Leu Gln Arg Gln Val Lys Pro Cys Arg Lys

399 60 65 70

399 gaa tat caa ctg tat gat ctg att ttt caa aac tgc tgc cgt agc tgc 36

399 Glu His Gln Leu Cys Asp Leu Ile Phe Gln Asn Cys Cys Arg Gly Trp

399 75 80 85

399 tat tgc att atc ctg tct tgc act tgaagaetac ctgatgttt ctactccat 37

399 Trp Cys Val Val Leu Ser Cys Thr

399 90 95

399 c

346

396 <210> SEQ ID NO: 10

396 <211> LENGTH: 97

380 <212> TYPE: PRP

382 <213> ORGANISM: Conus textile

386 <400> SEQUENCE: 10

388 Met Lys Leu Thr Cys Met Met Ile Val Ala Val Leu Phe Leu Thr Ala

389 1 5 10 15

392 Trp Thr Phe Val Thr Ala Asp Asp Ser Arg Asn Gly Met Glu Asn Leu

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/749,637

DATE: 01/23/2001

TIME: 12:19:41

Input Set : A:\Cpg.pto

Output Set : N:\CRF3\01232001\I749637.raw

```

434      20      25      30
435 Gln Gln Gln Val Gln Met Gln Ser Ser Thr Asp Ser Leu Gln
436      35      40      45
437 Arg His Gln Gln Arg Pro Asp Thr Gln Asp Gln Gln Met Leu Leu
438      50      55      60
439 Gln Arg Gln Val Lys Pro Gln Arg Gln Gln His Gln Leu Cys Asp Leu
440      65      70      75      80
441 Gln Phe Gln Asn Cys Cys Arg Gly Arg Leu Val Val Leu Ser Cys
442      85      90      95

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443 <210> SEQ ID NO: 11

444 <211> LENGTH: 81

445 <212> TYPE: PRN

446 <213> ORGANISM: Canis familiaris

447 <220> FEATURE:

448 <221> NAME/KEY: CDS

449 <222> LOCATION: (1)..(81)

450 <223> OTHER INFORMATION: xaa at residue 1 may be Gln or p, depending on residue format

451 ... or ... hydroxy- ... xaa at residue 25 may be ... or ... xaa

452 ... at residue 71 may be ... or ... xaa

453 ... phosphorylation or ... phosphatase

454 <224> REMARK: 11

W--> 441 Xaa Val Lys Xaa Cys Arg Lys Xaa His Gln Leu Cys Asp Leu Ile Phe

```

442      5      10      15

```

W--> 444 Gln Asn Cys Cys Arg Gly Xaa Xaa Cys Val Val Leu Ser Cys Thr

```

445      20      25      30

```

446 <210> SEQ ID NO: 12

447 <211> LENGTH: 165

448 <212> TYPE: DNA

449 <213> ORGANISM: Canis familiaris

450 <220> FEATURE:

451 <221> NAME/KEY: CDS

452 <222> LOCATION: (1)..(234)

453 <223> SEQUENCE: 12

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454 atg aag cta aca agc ctg atg atc att gta atg cta tcc ttg acc gag      48

```

```

455 Met Lys Leu Thr Cys Leu Met Ile Val Ala Val Leu Ser Leu Thr Gly

```

```

456      5      10      15

```

```

457 tgg aca ttc qtc aag gct gat gac tct gaa aat gga ttg ggg aat ctt      96

```

```

458 Trp Thr Phe Val Thr Ala Asp Asp Ser Gly Asn Gly Leu Gly Asn Leu

```

```

459      20      25      30

```

```

460 ttt tgg aat gta cat cac gaa atg aag aac ccc gaa gcc tct aaa tta      144

```

```

461 Phe Ser Asn Ala His His Glu Met Lys Asn Pro Gln Ala Ser Lys Leu

```

```

462      35      40      45

```

```

463 aac aag agg tgc gtt cca ccc gag gcc gct tgt aat tgg ctt aca caa      192

```

```

464 Asn Lys Arg Cys Val Pro His Glu Gly Pro Cys Asn Trp Leu Thr Gln

```

```

465      50      55      60

```

```

466 aac tgc tgc aat ggt tat aat tgc atc att ttt ttc tgc cta ~      234

```

```

467 Asn Cys Cys Ser Gly Tyr Asn Cys Ile Ile Phe Phe Cys Leu

```

```

468      65      70      75

```

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/749,637

DATE: 01/23/2001

TIME: 12:19:42

Input Set : A:\Cpg.pto

Output Set: N:\CRF3\01232001\I749637.raw

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L1:391 H:341 W: 646 "n" or "Xaa" used. for SEQ ID#107
L1:403 H:341 W: 646 "n" or "Xaa" used. for SEQ ID#108
L1:496 H:341 W: 646 "n" or "Xaa" used. for SEQ ID#109

OICE

RAW SEQUENCE LISTING

PATENT APPLICATION: US,09/749,637

DATE: 01/16/2001

TIME: 11:53:59

Input Set : A:\2314-227.ST25.txt

Output Set : N:\CRF3\01162001\I749637.raw

1 <110> APPLICANT: University of Utah Research Foundation
 2 <110> Cognetix, Inc.
 3 <110> Ellison, Baldwin, H.
 4 <110> Carlson, G. Edward
 5 <110> Watkins, Martin
 6 <110> Hill, David K.
 7 <110> Netherland, J. Michael
 8 <110> Layer, Richard L.
 9 <110> Jones, Robert M.
 10 <110> TITLE OF INVENTION: O-Supranalyl Conjugate Peptide
 11 <110> TITLE REFERENCE: 2314-227
 C--> 17 <140> CURRENT APPLICATION NUMBER: US,09/749,637
 C--> 17 <141> CURRENT FILING DATE: 2000-12-28
 17 <150> PRIOR APPLICATION NUMBER: US 60/218,112
 18 <151> PRIOR FILING DATE: 2000-10-27
 20 <150> PRIOR APPLICATION NUMBER: US60/219,440
 21 <151> PRIOR FILING DATE: 2000-07-26
 23 <150> PRIOR APPLICATION NUMBER: US 60/211,293
 24 <151> PRIOR FILING DATE: 2000-06-26
 26 <150> PRIOR APPLICATION NUMBER: US 60/173,754
 27 <151> PRIOR FILING DATE: 1999-12-30
 29 <160> NUMBER OF SEQ ID NOS: 409
 31 <170> SOFTWARE: Patentix, version 3.0

Does Not Comply
Corrected Diskette Needed
PP 1, 2

These amino acids
were not found.

PROBED SEQUENCES

959 <110> SEQ ID NO: 24
 960 <111> LENGTH: 27
 961 <112> TYPE: PRT
 962 <113> ORGANISM: Corus ammiralis
 963 <114> FEATURE:
 964 <221> NAME/KEY: SITE
 965 <222> LOCATION: (1)..(27)
 966 <223> OTHER INFORMATION: Xaa at residue 1 may be Trp or bromo-Trp; Xaa at
 residues 7 and 1

968 <223> 8 may be Glu or gamma-carboxy-Glu; Xaa at residue 20 may be Tyr
 969 <223> 125-Trp, asmo-Iodo-Trp, di-Iodo-Trp, O-sulpho-Trp or O-phospho

E--> 970 <223> Tyr
 971 Tyr
 972 <400> SEQUENCE: 11
 E--> 975 Xaa Cys Lys Glu Ser Gly Xaa Met Cys Asn Leu Leu Asp Gln Asn Cys
 976 1 5 10 15
 W--> 978 Cys Xaa Gly Xaa Cys Ile Val Leu Val Cys Thr
 979 20 25

8367 <110> SEQ ID NO: 313

8368 <111> LENGTH: 26

8369 <112> TYPE: PRT

move to here or place <223> before each
 line of the
 explanation.
 When a lone amino acid is placed
 like this and does not have a <223>
 in front of it, the computer program
 picks it up as the first amino in

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/749,637

DATE: 01/16/2001

TIME: 11:53:40

Input Set : A:\2314-227.ST25.txt

Output Set : N:\CRF3\01162001\1749637.raw

8500.213 ORGANISM: *Canis familiaris*

8500.214 FEATURE:

8500.221 NAME/KEY: ST11

8500.222 LOCATION: (1)..(26)

8500.223 OTHER INFORMATION: Xaa at residues 3 and 7 may be Trp or bromo-Trp;

Xaa at residues

8500.224 <223> 1 and 17 may be Pro or hydroxy-Pro; Xaa at residue 6 may be Tyr;

8500.225 <223> 1 may be Trp, mono-iodo-Trp, di-iodo-Trp, O-sulpho-Trp or O-phospho-

E--> 8378 <223> Tyr

8379

8380 400 LENGTH: 313

E--> 8383 Asp Cys Xaa Xaa Gln Xaa Xaa Phe Cys Gly Leu Gln Arg Gly Cys Cys

8384 1

5

10

15

W--> 8386 Xaa Gly Thr Thr Cys Phe Phe Leu Cys Phe

8387

20

25

*move to here or place <223> before each**line of
the explanatory**Same error, refer
to p. 1.*

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/749,637

DATE: 01/16/2001

TIME: 11:33:11

Input Set : A:\2314-227.ST25.txt

Output Set : N:\CRF3\01162001\I749637.raw

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 L:177 H:250 N: Current Filing Date differs. Replaced Current Filing Date
 L:178 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 3
 L:179 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 3
 L:180 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 4
 L:181 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 4
 L:182 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 5
 L:183 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 5
 L:184 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 6
 L:185 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 6
 L:186 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 11
 L:187 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 11
 L:188 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 13
 L:189 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 13
 L:190 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 14
 L:191 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 14
 L:192 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 17
 L:193 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 17
 L:194 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 20
 L:195 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 20
 L:196 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 23
 L:197 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 23
 L:198 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 24
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 L:200 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 27
 L:201 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 27
 L:202 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 28
 L:203 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 28
 L:204 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 31
 L:205 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 31
 L:206 H:250 N: No. of Seq. differs. <41> LENGTH Input:27 Found:1 SEQ:34
 L:207 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 0
 L:208 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 0
 L:1096 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 37
 L:1099 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 37
 L:1142 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 40
 L:1143 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 40
 L:1229 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 43
 L:1293 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 46
 L:1317 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 46
 L:1393 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 49
 L:1394 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 49
 L:1377 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 52
 L:1489 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 52
 L:1497 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 53
 L:1513 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 54
 L:1521 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 54
 L:1598 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 57
 L:1601 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 57
 L:1677 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 60
 L:1753 H:341 W: (46) "n" or "Xaa" used. for SEQ ID# 63

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/749,637

Date: 1/16/2001

Time: 11:34:11

Input Set : A:\2314-227.ST25.txt

Output Set : N:\CRF3\01162001\I749637.raw

1:176: H:34: W: (16) "L" or "Xaa" used. for Seq ID#100
 1:186: H:34: W: (16) "L" or "Xaa" used. for Seq ID#100
 1:184: H:34: W: (16) "L" or "Xaa" used. for Seq ID#100
 1:192: H:34: W: (16) "L" or "Xaa" used. for Seq ID#100
 1:192: H:34: W: (16) "L" or "Xaa" used. for Seq ID#100
 1:3878: H:25: L: No. of Seq. differs. 8.144184184184184 Input:26.000000000000000